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Muukki(10) **Pub. No.: US 2016/0323558 A1**(43) **Pub. Date: Nov. 3, 2016**(54) **METHOD AND APPARATUS FOR 3D
CAPTURE SYNCHRONIZATION****Publication Classification**(71) Applicant: **Nokia Technologies Oy**, Espoo (FI)(72) Inventor: **Mikko Muukki**, Tampere (FI)(73) Assignee: **Nokia Technologies Oy**(21) Appl. No.: **15/208,670**(22) Filed: **Jul. 13, 2016**(51) **Int. Cl.****H04N 13/02** (2006.01)**G06F 13/10** (2006.01)**G06F 13/42** (2006.01)**H04N 5/247** (2006.01)(52) **U.S. Cl.**CPC **H04N 13/0239** (2013.01); **H04N 5/247**(2013.01); **H04N 13/0296** (2013.01); **G06F****13/102** (2013.01); **G06F 13/4282** (2013.01)

(57)

ABSTRACT

In accordance with an example embodiment of the present invention, disclosed is a method and an apparatus thereof for receiving a first command via a first interface that is addressable by a first address and receiving a second command via a second interface that is addressable by a second address.

Related U.S. Application Data

(63) Continuation of application No. 13/991,198, filed on Aug. 6, 2013, now abandoned, filed as application No. PCT/FI2010/051011 on Dec. 13, 2010.

	1st Camera module	address	2nd Camera module	address
1	Power up camera modules			
2	Wake up by turning EXTCLK on		HW standby	
3	CCI address is changed by CCI_address_control register (address changed to e.g. 0x22)	0x20		
4			Wake up by turning EXTCLK on	
5	Identification and NVM read	0x23		
6	Initialization	0x22		
7			Identification and NVM read	0x21
8			Initialization	0x20
9	Secondary CCI interface is activated by 2nd_CCI_if_ctrl register. Enable ACK assertion for 2 nd interface activated by 2nd_CCI_if_ctrl register.	0x22		
10			Secondary CCI interface is activated by 2nd_CCI_if_ctrl register. ACK assertion is not enabled for 2 nd interface (default value of 2nd_CCI_if_ctrl register).	0x20
11	Send start streaming command to secondary interface 0x30			
12	Streaming is started for both cameras. Only 1 st camera will give ACK.			